What is claimed is:

- 1. A power conversion device, comprising:
- a transformer having a primary input winding and multiple secondary output windings; and
- a switched inverter circuit coupled to the secondary output windings and configurable to couple a first output winding with a parallel path inverter and configurable to couple a second output winding with a series path inverter.
- 2. The device of claim 1, wherein the series path inverter is a full-bridge inverter.
- 3. The device of claim 1, further comprising:
 an energy storage device coupled to the parallel path inverter for mitigating voltage disturbances.
- 4. The device of claim 1, further comprising:a filter coupled to the output of the transformer for smoothing output waveforms.
- 5. The device of claim 1, further comprising: an AC/DC converter block coupled to the parallel path inverter for converting Alternating Current (AC) waveforms into Direct Current (DC) waveforms.
- 6. The device of claim 5, wherein the AC/DC converter block is a full-bridge converter.
- 7. The device of claim 5, wherein the AC/DC converter block is a diode bridge.
- 8. The device of claim 1, wherein the series path inverter and the parallel path inverter comprise a plurality of configurable semiconductor switches.
- 9. The device of claim 8, wherein the semiconductor switches are thyristors.
- 10. A power conversion device, comprising:
- a transformer having a number of primary windings adapted to be coupled to a threephase power source and a number of secondary Δ - Δ and Δ -Y connections;
 - a first switched inverter coupled to the Δ - Δ secondary connection; and
- a second switched inverter coupled to the Δ -Y secondary connection and to the first switched inverter for providing a harmonically compensated waveform.

11. The device of claim 10, further comprising:

AC/DC converter blocks coupled to the secondary Δ - Δ and Δ -Y connections for converting Alternating Current (AC) waveforms into Direct Current (DC) waveforms.

- 12. The device of claim 11, wherein the AC/DC converter block is a diode bridge.
- 13. The device of claim 10, further comprising:

an energy storage device coupled to the input of at least one of the first and second switched inverters.

- 14. The device of claim 10, further comprising:
 - a filter coupled to the output of at least one of the first and second switched inverters.
- 15. A power conversion device, comprising:
 - a transformer adapted to be coupled to a power source;

power electronics coupled to the transformer for transforming the power source into a desired waveform; and

an energy storage device coupled to the transformer and the power electronics for mitigating interruptions in the power source.

- 16. The device of claim 15, further comprising:
- a converter coupled to the transformer for converting the power source from Alternating Current (AC) waveforms to Direct Current (DC) waveforms.
- 17. The device of claim 15, wherein the power electronics include an actively switched inverter for providing a desired output waveform.
- 18. The device of claim 15, wherein the converter is a switched full-bridge converter.
- 19. The device of claim 15, further comprising:
 - a filter coupled to the power electronics for smoothing the output waveform.
- 20. The device of claim 17, wherein the switched inverter is controlled by pulse width modulation.